DataPath

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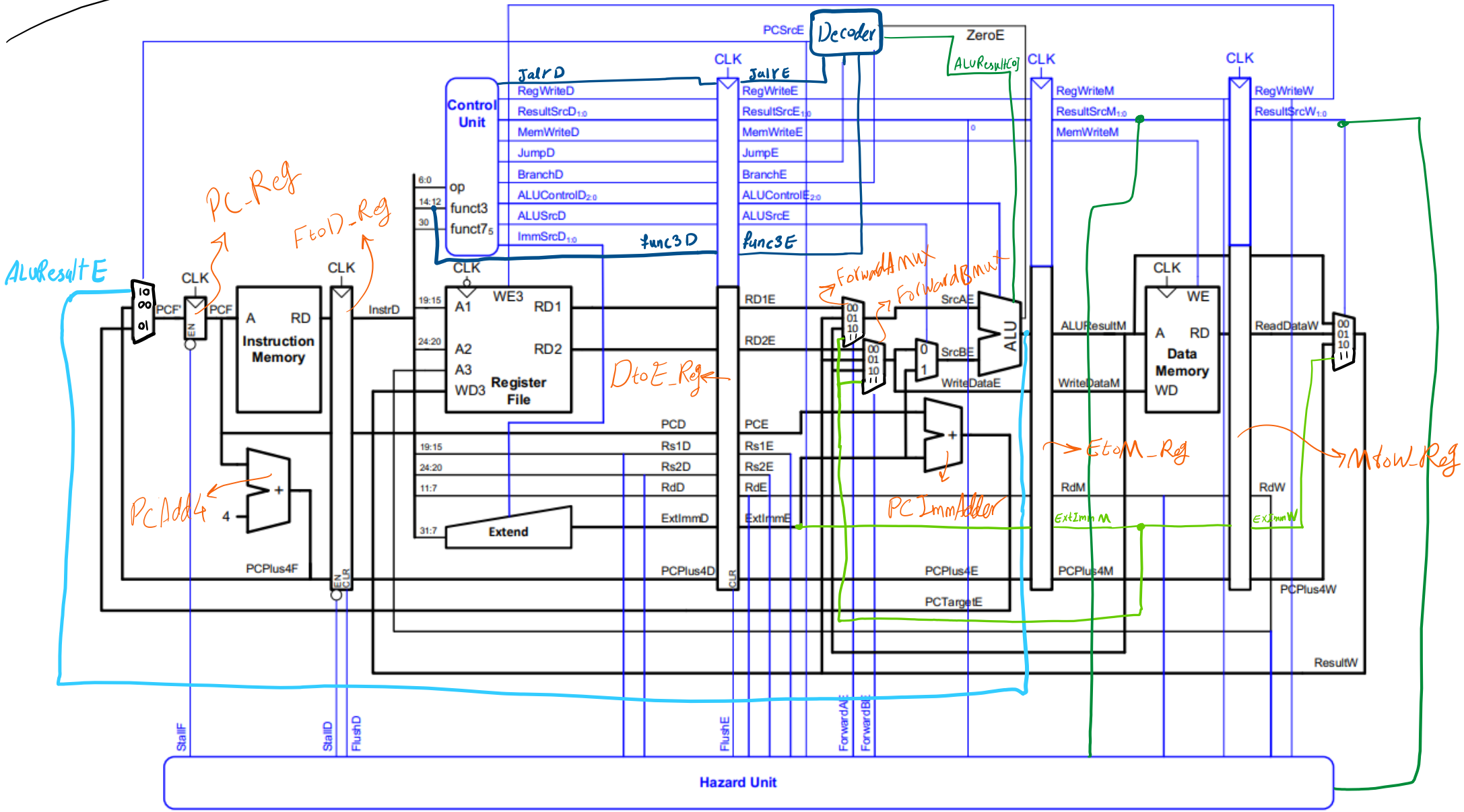

Controller

		RegWrite	ResultSrc	MemWrite	jump	branch	jalr	ALUControl	ALUSrc	ImmSrc
R-Type	add	1	00	0	0	0	0	000	0	XXX
	sub	1	00	0	0	0	0	001	0	XXX
	and	1	00	0	0	0	0	010	0	XXX
	or	1	00	0	0	0	0	011	0	XXX
	slt	1	00	0	0	0	0	101	0	XXX
I-Type	lw	1	01	0	0	0	0	000	1	000
	addi	1	00	0	0	0	0	000	1	000
	xori	1	00	0	0	0	0	100	1	000
	ori	1	00	0	0	0	0	011	1	000
	slti	1	00	0	0	0	0	101	1	000
	jalr	1	10	0	0	0	1	000	1	000
S-Type	sw	0	XX	1	0	0	0	000	1	001
J-Type	jal	1	10	0	1	0	0	XXX	X	010
B-Type	beq	0	XX	0	0	1	0	001	0	011
	bne	0	XX	0	0	1	0	001	0	011
	blt	0	XX	0	0	1	0	101	0	011
	bge	0	XX	0	0	1	0	101	0	011
U-Type	lui	1	11	0	0	0	0	XXX	X	100